Contents

No. 1 (February 1992)

EANES, WALTER F.; WESLEY, CEDRIC *and* CHARLESWORTH, BRIAN. Accumulation of P elements in minority inversions in natural populations of *Drosophila melanogaster* 1

BIRCHLER, JAMES A. Expression of *cis*-regulatory mutations of the *white* locus in metafemales of *Drosophila melanogaster* 11

FURIA, MARIA; D'AVINO, PIER PAOLO; DIGILIO, FILOMENA A.; CRISPI, STEFANIA; GIORDANO, ENNIO *and* POLITO, LINO C. Effect of *ecd*^{1} mutation on the expression of genes mapped at the *Drosophila melanogaster* 3C11-12 intermoult puff 19

LYON, MARY F. Deletion of mouse *t*-complex distorter-1 produces an effect like that of the *t*-form of the distorter 27

ROSENZWEIG, R. F. Regulation of fitness in yeast overexpressing glycolytic enzymes: parameters of growth and viability 35

CHARLESWORTH, D.; MORGAN, M. T. *and* CHARLESWORTH, B. The effect of linkage and population size on inbreeding depression due to mutational load 49

BOOK REVIEWS 63

Evolutionary Genetics and Environmental Stress *by A. A. Hoffmann and P. A. Parsons.* LINDA PARTRIDGE

The Aquatic Ape: Fact or Fiction? *Machteld Roede, Jan Wind, John Patrick and Vernon Reynolds eds.* ERIC REEVE

The Triumph of the Embryo *by Lewis Wolpert.* MARY BOWNES

Biochemical Protozoology *G. H. Coombs and M. J. North eds.* ROBERT RIDLEY

Animal Applications of Research in Mammalian Development *R. A. Pederson, A. McLaren and N. First eds.* IAN WILMUT

Statistical Genetics *by Prem Narain.* ROBIN THOMPSON

Parasitic Nematodes – Antigens, Membranes and Genes *M. W. Kennedy ed.* M. E. VINEY

BOOKS RECEIVED 71

No. 2 (April 1992)

ALLEN ORR, H. Mapping and characterization of a 'speciation gene' in *Drosophila* 73

KONDO, RUMI; MATSUURA, ETSUKO T. *and* CHIGUSA, SADAO I. Further observation of paternal transmission of *Drosophila mitochondrial DNA by PCR selective amplification method* 81

DA LAGE, J.-L.; LEMEUNIER, F.; CARIOU, M.-L. *and* DAVID, J. R. Multiple amylase genes in *Drosophila ananassae* and related species 85

GRUNWALD, DAVID JONAH *and* STREISINGER, GEORGE. Induction of mutations in the zebrafish with ultraviolet light 93

GRUNWALD, DAVID JONAH *and* STREISINGER, GEORGE. Induction of recessive lethal and specific locus mutations in the zebrafish with ethyl nitrosourea 103

MELANITOU, E.; TRONIK, D. *and* ROUGEON, F. Two isoforms of the kidney androgen-regulated protein are encoded by two alleles of a single gene in OF1 mice 117

MONCLA, ANNE; LANDON, FRANÇOISE; MATTEI, MARIE-GENEVIEVE *and* PORTIER, MARIE-MADELEINE. Chromosomal localisation of the mouse and human peripherin genes 125

BARBADILLA, ANTONIO; NAVEIRA, HORACIO; RUIZ, ALFREDO *and* SANTOS, MAURO. The estimation of genotypic probabilities in an adult population by the analysis of descendants 131

FELSENSTEIN, JOSEPH. Estimating effective population size from samples of sequences inefficiency of pairwise and segregating sites as compared to phylogenetic estimates 139
BOOK REVIEWS 149
Biochemistry and Molecular Biology of Plant-Pathogen Interactions *C. J. Smith ed.* MARK J. HOCART
Plant Breeding in the 1990s *H. T. Stalker and J. P. Murphy eds.* ERIC REEVE
Biotechnological Innovations in Animal Productivity *N. A. A. Macfarlane ed.* IAN WILMUT
Symbiosis as a Source of Evolutionary Innovation: Speciation and Morphogenesis *Lynn Margulis and Rene Fester eds.* GEOFFREY BEALE
BOOKS RECEIVED 155

No. 3 (June 1992)

CARTER, JEFFREY R.; PATEL, DIPTY R. *and* PORTER, RONALD D. The role of *oriT* in *tra*-dependent enhanced recombination between mini-F-*lac-oriT* and λp*lac5* 157
ROZENZWEIG, R. F. Regulation of fitness in yeast overexpressing glycolytic enzymes: reponses to heat shock and nitrogen starvation 167
GUERIN, J. R.; LANCE, R. C. M. *and* WALLACE, W. Chromosomal location of a barley malt endopeptidase gene 179
HUNT, S. M. N.; WILKINS, M. R.; STOKES, H. W.; DAGGARD, G. E. *and* FRANKHAM, R. Induced expression of a *Drosophila hsp70* promoter-fusion transgene is reduced after repeated heat shocks 183
TORRES, MIGUEL *and* SANCHEZ, LUCAS. The segmentation gene *runt* is needed to activate *Sex-lethal*, a gene that controls sex determination and dosage compensation in *Drosophila* 189
KRATOCHVILOVA, J. *and* FAVOR, J. Allelism tests of 15 dominant cataract mutations in mice 199
WEBB, S.; DE VRIES, T. J. *and* KAUFMAN, M. H. The differential staining pattern of the X chromosome in the embryonic and extraembryonic tissues of postimplantation homozygous tetraploid mouse embryos 205
HASTINGS, IAN M. Population genetic aspects of deleterious cytoplasmic genomes and their effect on the evolution of sexual reproducton 215
Abstracts of papers presented at the second Mammalian Genetics and Development Workshop held in the Linnean Society Rooms, Burlington House, Piccadilly, London on 5–7 November 1991 227
BOOK REVIEWS 243
Apoptosis: The Molecular Basis of Cell Death *L. D. Tomei and F. O. Cope eds.* CHRISTOPHER D. GREGORY
The Molecular Pathology of Alcoholism *T. Norman Palmer ed.* WALTER MUIR
Applied Molecular Genetics of Fungi *J. H. Peberdy, C. E. Caten, J. E. Ogden and J. W. Bennett eds.* JEFF BOND
The Evolutionary Process *by Verne Grant.* J. BRUCE WALSH
BOOKS RECEIVED 249
INDEX 251